UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

DATE: 1/29/86

SUBJECT: Potential Hazardous Waste Site

FROM: Keith Bradley, FIT RPO
Hazardous Waste Section (6ES-SH)

TO: Martha McKee, Chief
Compliance Section (6AW-SC)

Site Name: Oleo Operation
Location: Houston, Tx
Hazsit No.: Tx 15-381
TDD No.: 06-8512-18

A. Deliverables:

1.	Preliminary Assessment (Form 2070-2)	attached ( )
2.	Site Inspection Report (Form 2070-3)	attached ( )
3.	Sampling Inspection Report	attached ( )
4.	Other: _____	attached (X)

B. Were drinking water wells sampled? Yes ( ) No (X)

C. Analytical Data:

1.	None collected	(X)
2.	Field data	( )
3.	Contract lab results	attached ( )
4.	Houston lab results	attached ( )

D. Comments:

HRS support information

cc:(circle) Cabra 6W-~~M~~
Gazda 6ES-E
Taylor 6AW-HE

196656

Form 1320-6 (Rev. 3-76)

ECOLOGY AND ENVIRONMENT, INC.,

REGION VI

MEMORANDUM

TO: Keith Bradley, Region VI RPO

FROM: R.W. Roblin, FIT Geologist

THRU: K.H. Malone Jr., FIT RPM

DATE: January 22, 1986

SUBJ: HRS Support for Olin Corp., Wallisville Road Site, Houston, TX. (TX1538)
TDD R6-8512-18

The FIT was tasked to provide HRS support for the Old Olin, Wallisville Road Site, in Houston Texas. Specifically, the FIT was to provide a description of the Montgomery Formation, the overlying Beaumont Formation and to determine the highest seasonal water level of the Beaumont Formation with approximate unit thicknesses in the area of the site.

The Montgomery Formation and the Beaumont Formation are in the Quaternary System and are the two upper units of the Chicot Aquifer. The lower unit, the Montgomery Formation, is composed of alternating clays, silts, sand and very minor silicarous gravel of granule and small pebble size with an approximate thickness of 100+ feet in the investigation area. The upper member, the Beaumont Formation, lies stratigraphically above the Montgomery Formation and is a series of natural levee, backswamp, stream channel, and point bar deposits of alternating clays, silts, and sands. The two units are hydraulically connected by a basel sand. The Beaumont Formation is approximately 100+ feet thick in the investigation area and is the outcropping unit in Houston. The Beaumont Formation's seasonal water levels are between 30' - 45'.

Descriptions of the Beaumont and Montgomery Formations are referenced to the Geologic Atlas of Texas, Houston Sheet, February 1968. Water level of the Beaumont Formation is referenced to well number LJ-60-60-909 of the Texas Water Development Board Report 203, March 1976. The stratigraphic column is referenced to the Texas Water Development Board Report 190, February 1975.

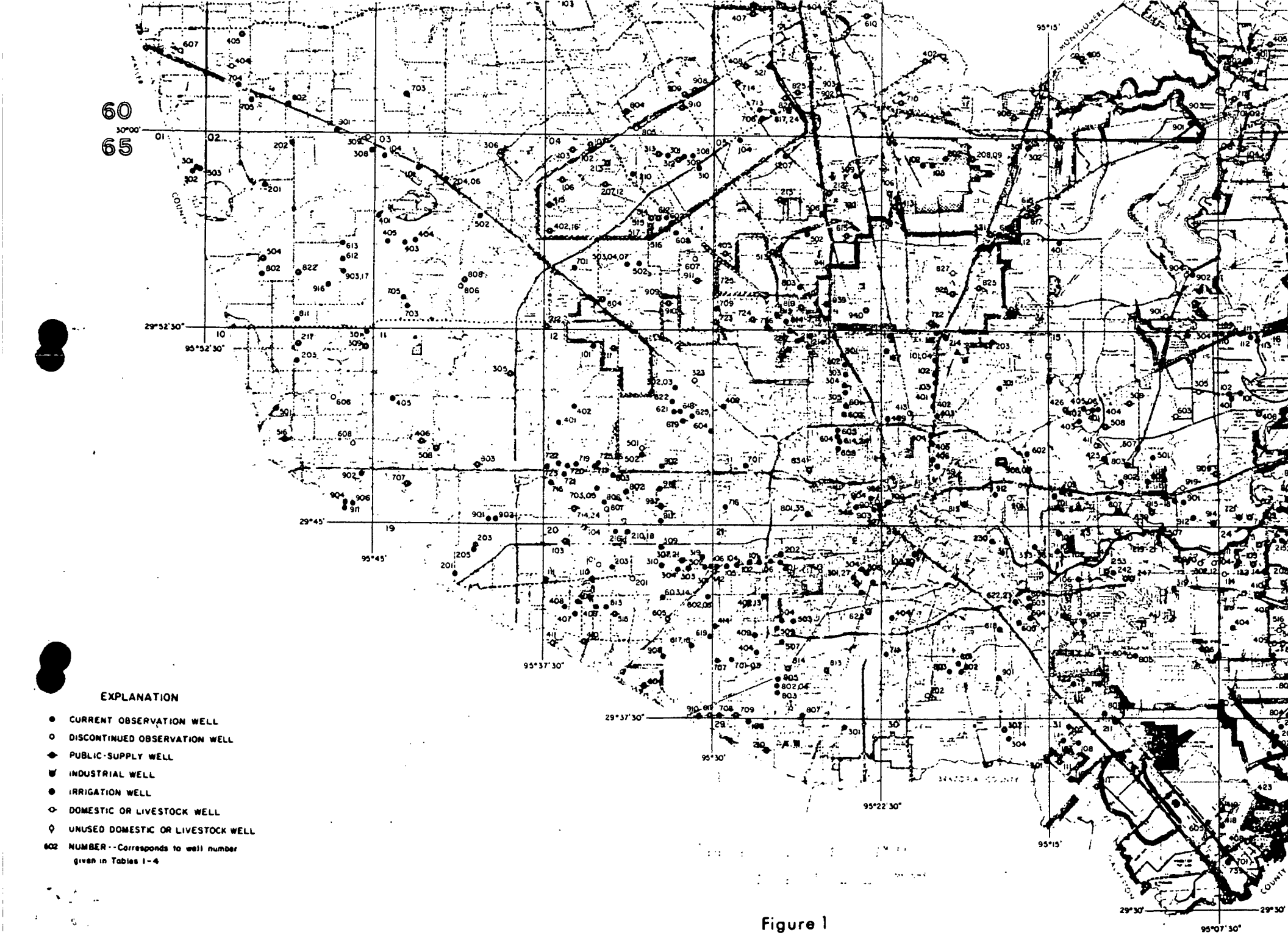

Figure 1

Locations of Wells in Harris County

	THICKNESS (FEET)	DEPTH (FEET)
Well LJ-60-60-909 Owner: Leonard Benfer Driller: Schoppa Water Well Service		
Topsoil	5	5
Clay	40	45
Sand	15	60
Clay	45	105
Sand	4	109
Clay	36	145
Sand	5	150
Clay	19	169
Sand	15	184
Well LJ-60-60-910 Owner: Klein Independent School District Well 2 Driller: T. C. Bussell and Son		
Topsoil	3	3
Unconsolidated	347	350
Sand and rock, broken	54	404
Shaly area	30	434
Sand, coarse	21	455
Shale	21	476
Well LJ-60-61-101 Owner: Shasla Public Utility District Driller: Layne-Texas Co.		
Clay	114	114
Sand	33	147
Shale	18	165
Sand	30	195
Shale and sandy shale	55	250
Shale, sandy and sand	20	270
Sand	54	324
Shale	4	328
Sand	39	367
Shale, sandy	48	415
Sand and gravel	70	485
Shale	68	553
Sand and streaks of lime	31	584
Shale, sandy	14	598

	THICKNESS (FEET)	DEPTH (FEET)
Well LJ-60-61-101--Continued		
Shale	103	701
Sand	33	734
Shale, sandy and lime streaks	30	764
Sand, fine, shale and lime streaks	128	892
Shale	35	927
Sand	62	989
Sand and shale streaks	50	1,039
Shale	16	1,055
Shale, sandy and sand streaks	50	1,105
Shale	45	1,150
Well LJ-60-61-407 Owner: Dove Meadows Municipal Utility District Driller: Dickson Drilling Co.		
Surface formation	60	60
Shale	35	95
Sand with shale strips	110	205
Shale	60	265
Sand with shale strips	120	385
Shale with sand strips	30	415
Sand	75	490
Shale	108	598
Sand	24	622
Shale	113	735
Sand	13	748
Shale	57	805
Sand	131	936
Shale	20	956
Sand with clay strips	18	974
Shale	12	986
Sand	16	1,002
Shale	42	1,044
Sand	38	1,082
Shale	46	1,128

Table 1.--Records of Wells in Harris County

Water levels : Reported water levels given in feet; measured water levels given in feet and tenths.
Method of lift and type of power: C, cylinder; E, electric; G, gasoline, butane, or diesel engine; Ng, natural gas; J, jet; Sub, submersible; T, turbine; N, none. Number indicates horsepower.
Use of water : D, domestic; Ind, industrial; Irr, irrigation; P, public supply; S, livestock; N, none.
Water-bearing unit : C, Chicot aquifer; CU, upper unit of Chicot aquifer; CL, lower unit of Chicot aquifer; E, Evangeline aquifer.

No.	Owner	Driller	Date completed	Depth of well (ft.)	Casing		Water-bearing unit	Altitude of land surface (ft.)	Water level		Method of lift	Use of water	Remarks
					Diameter (in.)	Depth (ft.)			Above (+) or below land surface datum (ft.)	Date of measurement			
LJ-60-49-804	E. C. Japhet	Falkenbury Drilling Co.	1971	220	6 4	168 220	E	300	97	July 7, 1971	Sub,E 10	Irr	30 feet of screen between 169 and 219 feet. Supplies lake. 1/
58-404	H. A. Park	Doyle's Water Well Service	1970	244	4	244	C	231	109	Jan. 27, 1970	Sub,E 1	D	Screen from 234 to 244 feet. 1/
405	Frank Hegar	Texas Water Wells, Inc.	1974	1,276	16 8	486 1,276	E	260	185	May 1974	T,E	Irr	407 feet of slotted pipe between 286 and 1,266 feet. Reported yield 2,000 gal/min with 82 feet drawdown when drilled. 1/
59-311	Harris County Spring Creek Park	H&H Water Well Drilling	1972	416	6 4	360 416	E,C	225	95	Jan. 3, 1972	Sub,E	Irr,P	Supplies recreation facilities. 1/
312	do.	A. Chrysty Kuhlmann	1959	274	4	274	C	215	--	--	Sub,E 5	--	Screen from 244 to 274 feet.
# 313	Tomball Independent School District	Layne-Texas Co.	1973	455	10 6	375 455	E	220	94	Apr. 11, 1973	T,E	P	50 feet of screen between 385 and 443 feet. Reported yield 250 gal/min with 146 feet drawdown when drilled. 1/
703	Desmond Gay	Borgstedt Well Service	1971	292	4	292	C	160	--	--	Sub,E 5	Irr	Screen from 270 to 292 feet. 1/
# 60-306	Norchester Municipal Utility District, Northampton	Layne-Texas Co.	1972	1,612	16 10	1,363 1,612	J	144	Flowing	Aug. 14, 1972	T,E 100	P	145 feet of screen between 1,374 and 1,600 feet. Reported yield 1,034 gal/min with 11 feet drawdown when drilled. Test hole drilled to 1,900 feet. 1/
805	Donley Williams	Schoppa Water Well Service	1971	465	4 2 1/2	441 465	C	138	115	May 3, 1971	Sub,E 5	D	21 feet of screen between 437 and 465 feet. 1/
908	Spring Creek Forest	Texas Water Wells, Inc.	1972	672	12 8	506 672	C,E	124	134	Dec. 1971	T,E 125	P	149 feet of screen between 426 and 662 feet. Reported yield 1,051 gal/min when drilled. Test hole drilled to 1,166 feet.
909	Leonard Benfer	Schoppa Water Well Service	1971	184	4 2 1/2	172 184	C	125	45	Mar. 9, 1971	--	Irr	Screen from 174 to 184 feet. 1/
910	Klein Independent School District, well 2	T. C. Bussell & Son	1972	476	6 4	357 476	C	124	113	Apr. 7, 1972	Sub,E	P	42 feet of screen between 383 and 455 feet. Reported yield 150 gal/min with 30 feet drawdown when drilled. 1/
# 61-101	Shasla Public Utility District	Layne-Texas Co.	1973	1,000	16 10	540 1,000	E	135	142 139.8	June 23, 1973 May 30, 1974	T,E 75	P	165 feet of screen between 550 and 985 feet. Reported yield 1,022 gal/min with 54 feet drawdown when drilled. 1/
# 407	Dove Meadows Municipal Utility District	Dickson Drilling Co.	1972	1,092	10	1,092	E	136	79	Apr. 10, 1972	T,E 40	P	192 feet of screen between 806 and 1,082 feet. Reported yield 1,001 gal/min with 51 feet drawdown when drilled. 1/
# 408	Cypresswood Municipal Utility District	Layne-Texas Co.	1973	1,150	16 10	880 1,150	E	122	158	July 2, 1973	T,E	P	180 feet of screen between 890 and 1,130 feet. Reported yield 1,033 gal/min with 46 feet drawdown when drilled. 1/

See footnotes at end of table.

TEXAS
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REPORT 188

RECORDS, WELL DRILLERS' LOGS, WATER-LEVEL MEASUREMENTS, AND CHEMICAL ANALYSES OF GROUND WATER IN HARRIS AND GALVESTON COUNTIES, TEXAS, 1970-74

Prepared by